



20
26 VRF
CATALOGUE

Building a Sustainable Future

For over 50 years, Inventor S.A. A.G. has been a cornerstone of innovation and quality in the HVAC sector, establishing a leading position in the Greek air-conditioning market and earning the trust of customers worldwide. Acting on our core values - integrity, customer focus, innovation, and respect for the environment - we design solutions that combine reliability, performance, and sustainability.

In 2021, Inventor became part of Beijer Ref Group, the world's largest global refrigeration wholesaler, marking a new chapter of growth and international synergy. This strategic partnership enhances our access to global expertise, innovation, and resources, strengthening our ability to deliver cutting-edge, sustainable HVAC solutions worldwide.

With a strong international presence in over 75 countries and a robust network of partners, Inventor S.A. A.G. ensures seamless operations across markets while delivering exceptional service and support.

As part of our strategic evolution, we are embracing advanced technologies that reduce energy consumption, lower environmental impact, and deliver long-term value to our customers.



OUR NEXT STEP: SMART & SUSTAINABLE SOLUTIONS

Inventor A.G. S.A. recognizes the importance of sustainable growth and the responsibility that shares in protecting the environment. As part of its strategic evolution, the company is embracing advanced technologies that reduce energy consumption, lower environmental impact, and deliver long-term value to our customers. Its expansion into VRF systems reflects this commitment — offering flexible, efficient, and eco-friendly climate solutions designed for smarter, greener environments.



Inventor Acquires ESG Certification!

Sustainable temperature control for all! Inventor is proud to obtain the ESG certificate, manifesting the company's commitment to Environmental, Social, and Governance principles.

Also, the company consistently adheres to ISO 9001, ISO 14001, ISO 45001, and ISO 27001 standards, ensuring quality excellence, environmental responsibility, occupational safety, and information security.





Welcome to Our VRF Solutions

Discover our range of advanced VRF systems, designed to deliver flexible, energy-efficient, and comfortable climate control for any space. Explore the innovative features, high performance, and eco-friendly design that make our VRF solutions the ideal choice for modern buildings.

Mini VRF

Compact and ideal for small offices, apartments, or shops.

Side Discharge

Efficient side airflow, perfect for medium offices, classrooms, or open spaces.

Top Discharge

Rooftop installation for large halls, conference rooms, or hotels.

VRF Categories

Mini VRF



3-6.5HP

Side Discharge



7-22HP

Top Discharge Fixed



8-32HP

Top Discharge Modular



12-20HP



VRF Indoor Units - Comfort Meets Technology

Designed to combine performance, efficiency, and aesthetics, the VRF indoor units deliver the perfect balance between advanced climate control and seamless integration into any interior. With smart engineering and versatile configurations, they ensure optimal comfort, precise air management, and long-term reliability in every application.

Superior Comfort

Consistent temperature and quiet operation for an ideal indoor environment.

Energy Efficiency

Advanced inverter technology minimizes energy consumption and maximizes performance.

Easy Maintenance

Simplified design and accessible components ensure quick service and reduced downtime.

Air Quality & Flow Control

Precise regulation of air movement and filtration enhances indoor air quality and overall well-being.

Indoor Units

Wall-mounted



2.2-7.1kW

Cassette



2.2-16kW

Floor Ceiling



3.6-14kW

Floor Standing



2.8-7.1kW

Ducted



2.2-16kW

Floor Mounted Concealed



2.8-7.1kW



Advanced solutions for complete control & management!

To provide flexibility and ease of use, the VRF system offers a complete range of controllers designed to meet every project need — from individual room operation to centralized building management.

BUILDING MANAGEMENT SYSTEM (BMS) CONNECTIVITY

Connect with Building Management System (BMS) effortlessly to gain full control over your building's operations. With ideal integration of Inventor air conditioning units, alongside ventilation, lighting, and security, you can monitor and adjust settings in real time to meet your specific needs. This smart system not only lowers operational costs but also detects issues instantly, and minimizes human error with its automated functionalities, ensuring your building operations always run efficiently.

Controllers

Wireless controller

Ideal for spaces without pre-installed wiring or where user flexibility is required.



Wired controller with buttons

A classic and reliable option providing easy operation and basic setting functions.



Wired touch controller

Modern design with touch screen interface for intuitive navigation and advanced configuration.



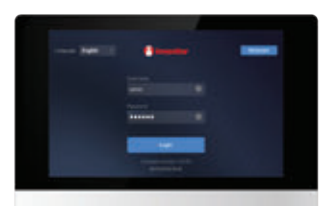
Central controller with 7" display

Color touch screen for group or zone control of multiple indoor units, supporting up to 16 outdoor units and 128 indoor units.



Central controller with 10.1" display

Comprehensive management system featuring a graphical interface, scheduling functions, and energy monitoring, supporting up to 48 outdoor units and 384 indoor units.



Discover the Advantages of Inventor iVR Series

iVR

Our VRF solutions are designed to deliver flexible, energy-efficient, and reliable climate control for any space. Explore the key benefits that make iVR systems the ideal choice for modern buildings — combining high performance, comfort, and eco-friendly design with easy installation and smart control.



High Efficiency

Optimized energy use for lower operating costs and reduced environmental impact.

Advanced refrigerants and energy-efficient technology minimize environmental footprint.



High Reliability

Durable components and robust design ensure consistent performance over time.

Designed to perform consistently in any environment, 24/7.



Comfort

Precise climate control for every zone, providing a pleasant environment all year round.

Low noise performance ensures comfort in offices, hotels, and homes.



Easy Installation & Maintenance

Designed for quick setup and straightforward servicing, saving time and effort.

Adaptable to different building types, sizes, and installation requirements.

Intelligent systems for precise temperature management and remote monitoring.

Built on Smart Technologies

Inventor's VRF system brings together multiple intelligent technologies designed to simplify complex installations, enhance reliability and deliver consistent comfort, even in the most demanding environments.



FlexLink

FlexLink is a flexible and highly reliable communication and power bus that simplifies VRF wiring, even in complex or demanding installations. It adapts easily to any building layout, offers excellent resistance to interference and ensures stable operation, while reducing installation time and overall wiring costs. It is ideal for large buildings and environments with high electrical noise.



ShieldCase

ShieldCase provides complete protection for the system's electronics through a fully sealed, IP55-rated control box. It ensures reliable operation in extreme temperatures and harsh environments and protects against dust, water and corrosion, extending system lifetime and reducing service needs.



SensorIQ

SensorIQ uses an advanced network of multiple sensors to continuously monitor system operation and refrigerant behavior in real time. This ensures accurate control, improved efficiency and early fault detection. Thanks to Virtual Sensor Backup, the system remains operational even if a sensor fails, making it an ideal solution for large installations and applications requiring uninterrupted 24/7 operation.



SmartFlow

SmartFlow is an intelligent system that controls refrigerant flow operating temperature and indoor airflow according to actual demand. By continuously adapting system performance, it delivers optimal comfort while minimizing energy consumption, making it a perfect choice for hotels, offices, hospitals and commercial buildings.



ComfortSense

ComfortSense focuses on delivering superior indoor experience through precise temperature control, quiet operation and even air distribution. With 360-degree airflow, windless technology and advanced air filtration options, it creates a clean, healthy and comfortable environment, suitable for both work and rest.



Insight Monitor

Insight Monitor simplifies monitoring and maintenance by providing easy access to system data via smartphone, tablet or computer. Without the need to open electrical panels, technicians and facility managers can track performance, analyze historical data and receive early warnings, enabling preventive maintenance and reducing downtime, especially valuable for remote or critical installations.

Available capacities of outdoor units

Model	Image	Capacity										Capacity											
		HP	3	4	4.5	5	6	6.5	7		8	10	12	14	16	18	20	22	24	26	28	30	32
		kW	8.0	10.0	12.0	14.0	16.0	18.0	20.0		25.2	28.0	33.5	40.0	45.0	50.0	56.0	61.5	67.0	73.0	78.5	85.0	90.0
Mini VRF			●	●	●	●	●	●															
Side Discharge 7-8HP									●		●												
Side Discharge 12-22 HP												●	●	●	●	●	●	●					
Modular Top Discharge											●	●	●	●	●	●	●	●	●	●	●	●	●
Fixed Top Discharge											●	●	●	●	●	●	●	●	●	●	●	●	●

Up to 96HP (270kW) with combinations
Available only for FOB China orders

Mini VRF



FlexLink



SensorIQ



SmartFlow



ComfortSense



Insight Monitor



All DC Inverter Technology

	3 HP	4 HP	4.5 HP	5 HP	5 HP	6 HP	6.5 HP
Model	IVROMN32F-080S	IVROMN32F-100S	IVROMN32F-120S	IVROMN32F-140S	IVROMN32F-140T	IVROMN32F-160T	IVROMN32F-180T
Power supply (V/Ph/Hz)	220-240/1/50				380-415/50/3		
Cooling Capacity (kW)	7.2	9.0	12.3	14.0	14.0	16.0	17.5
Cooling Capacity (kBtu/h)	24	30	42	47	47	52	59
Cooling Power Input (kW)	1.95	2.77	3.73	4.67	4.67	5.34	6.46
EER	3.70	3.25	3.30	3.00	3.00	3.00	2.71
SEER	5.80	5.70	7.80	7.40	7.40	7.10	7.20
Heating Rated Capacity (kW)	7.2	9.0	12.3	14.0	14.0	16.0	17.5
Heating Rated Power Input (kW)	1.80	2.31	3.40	3.29	3.29	3.75	4.49
COP	4.00	3.90	3.60	4.30	4.25	4.27	3.90
SCOP	3.60	3.60	3.90	3.80	4.20	3.70	3.50
Heating Max Capacity (kW)	9.0	10.8	14.0	16.0	16.0	17.5	19.5
Heating Max Power Input (kW)	2.50	3.00	4.00	4.21	4.21	4.73	5.57
Heating Max COP	3.60	3.60	3.90	3.80	3.80	3.70	3.50
Indoor unit total capacity	50–160% of ODU capacity						
Max indoor units	5	6	8	10	10	11	12
Compressor Type	DC inverter						
Compressor Quantity	1						
Fan motor Type	DC						
Fan motor Quantity	1						
Airflow rate (m³/h)	5200		5000				5500
Static pressure (Pa)	0–35 (standard)						
Refrigerant Type	R32						
Factory charge (kg)	2		2.85				
Gas pipe (mm)	15.9						19.1
Liquid pipe (mm)	9.52						
Sound pressure level (dBA)	68	69	66	66	56	69	73
Sound power level (dBA)	70	72	70	72	71	74	76
Net dimensions (W×H×D) mm	1038×864×409						
Packed dimensions (W×H×D) mm	1120×980×560						
Net weight (kg)	73	77	84	89	110	94	105
Gross weight (kg)	85	94	105	105	121	105	120
Cooling Ambient Temp. Range (°C)	-15 to 52						
Heating Ambient Temp. Range (°C)	-20 to 30						

Side Discharge Fixed



SmartFlow



All DC Compressors



All DC Fans



4Stage Oil Control



Anti-corrosion protection



Refrigerant cooling PCB



	7 HP	8 HP
Model	IVROSD410F-200	IVROSD410F-224
Power supply (V/Ph/Hz)	380-415/3/50	
Cooling Capacity (kW)	20.00	22.40
Cooling Capacity (kBtu/h)	68.2	76.4
Heating Rated Capacity (kW)	20.00	22.40
Heating Rated Capacity (kBtu/h)	68.2	76.4
Heating Max Capacity (kW)	22.50	25.00
Heating Max Capacity (kBtu/h)	76.8	85.3
SEER	7.11	6.83
SCOP	3.95	4.26
Indoor unit total capacity	50–130%	
Max indoor units	11	13
Compressor Type	DC inverter	
Compressor Quantity	1	
Fan Type	DC	
Fan Motor Type	DC	
Refrigerant Type	R410A	
Factory charge (kg)	6.5	
Pipe connection - liquid (mm)	Ø12.7	
Pipe connection - gas (mm)	Ø25.4	
Airflow rate (m³/h)	9000	
Sound pressure level (dBA)	56	
Net dimensions (W×H×D) mm	1120×1558×528	
Packed dimensions (W×H×D) mm	1270×1620×565	
Net weight (kg)	149	159
Gross weight (kg)	164	174
Cooling Ambient Temp. Range (°C)	-5 to 48	
Heating Ambient Temp. Range (°C)	-20 to 24	

Side Discharge Fixed

 FlexLink

 SensorIQ

 SmartFlow

 Comfort Sense

 Insight Monitor



All DC Inverter Technology



	8 HP		10 HP		12 HP		14 HP			16 HP		18 HP		20 HP		22 HP	
Model	IVROSD410F-252		IVROSD410F-280		IVROSD410F-335		IVROSD410F-400			IVROSD410F-450		IVROSD410F-500		IVROSD410F-560		IVROSD410F-615	
Power supply (V/Ph/Hz)	380-415/3/50									380-415/3/50							
Cooling Capacity (kW)	25.2		28		33.5		40			45		50		56		61.5	
Cooling Capacity (kBtu/h)	86.0		95.5		114.3		136.5			153.5		170.6		191.1		209.8	
Heating Rated Capacity (kW)	25.2		28		33.5		40			45		50		56		61.5	
Heating Rated Capacity (kBtu/h)	86.0		95.5		114.3		136.5			153.5		170.6		191.1		209.8	
Heating Max Capacity (kW)	27		31.5		37.5		46.5			50		56.5		63.1		69	
Heating Max Capacity (kBtu/h)	92.1		107.5		128.0		153.5			170.6		192.8		215.0		235.4	
SEER	7.25		7.05		6.91		6.65			6.77		6.47		6.73		6.40	
ns,c (%)	287.0		279.0		273.4		263.0			267.8		255.8		249.0		243.0	
SCOP	4.15		4.11		4.11		4.15			4.23		4.17		4.20		4.00	
ns,h (%)	163.0		161.4		163.0		161.3			166.2		163.8		159.8		154.7	
Indoor unit total capacity	50–130% of outdoor unit capacity									50–130% of outdoor unit capacity							
Max indoor units	13		16		19		23			26		29		33		36	
Compressor Type	DC inverter									DC inverter							
Compressor Quantity	1									1							
Fan motor Type	DC									DC							
Fan motor Quantity	2									2							
Static pressure (Pa)	0–35 (standard); 35–80 (customized)									0–35 (standard); 35–80 (customized)							
Airflow rate (m³/h)	11800		12500							18500		20000		18500		19000	
Refrigerant Type	R410A									R410A							
Factory charge (kg)	6.1		6.1		6.4		7.4			8		8		8.5		9	
Pipe connection - liquid (mm)	Ø12.7									Ø15.9							
Pipe connection - gas (mm)	Ø25.4									Ø28.6							
Sound pressure level (dBA)	56		57		58		59			60		61		62		63	
Sound power level (dBA)	76		79		81		84			85		86		87		88	
Net dimensions (W×H×D) mm	1130×1760×580									1250×1760×580							
Packed dimensions (W×H×D) mm	1210×1916×597									1330×1916×597							
Net weight (kg)	182		182		187		201			229				249			
Gross weight (kg)	196		196		195		209			240		240		259		259	
Cooling Ambient Temp. Range (°C)	-15 to 55									-15 to 55							
Heating Ambient Temp. Range (°C)	-30 to 30									-30 to 30							

Modular Top Discharge



ShieldCase



SensorIQ



SmartFlow



Comfort Sense



Insight Monitor



All DC Inverter Technology





	12 HP		14 HP		16 HP		18 HP		20 HP	
Model name	IVROTD410M-335		IVROTD410M-400		IVROTD410M-450		IVROTD410M-500		IVROTD410M-560	
Power supply (V/Ph/Hz)	380-415/3/50				380-415/3/50					
Cooling Capacity (kW)	33.5		40.0		45.0		50.0		56.0	
Cooling Capacity (kBtu/h)	114.2		136.4		153.5		170.5		191.0	
Heating Rated Capacity (kW)	33.5		40.0		45.0		50.0		56.0	
Heating Rated Capacity (kBtu/h)	114.2		136.4		153.5		170.5		191.0	
Heating Max Capacity (kW)	38.0		45.0		50.0		56.0		61.0	
Heating Max Capacity (kBtu/h)	129.7		153.0		170.5		191.0		214.8	
SEER	7.27		6.17		6.05		6.01		6.02	
ns,c (%)	246.6		243.8		237.4		237.4		235.0	
SCOP	4.01		4.04		3.97		4.04		4.00	
ns,h (%)	158.2		158.6		158.6		158.6		159.0	
Indoor unit total capacity	50%–130%				50%–130%					
Max indoor units	19		23		26		29		33	
Compressor Type	DC inverter				DC inverter					
Compressor Quantity	1				1		2			
Fan motor Type	DC				DC					
Fan motor Quantity	1				1		2			
Static pressure (Pa)	0–20 (standard)/20–80 (customized)				0–20 (standard)/20–80 (customized)					
Airflow rate (m³/h)	13500		15600		15600		22000		22000	
Refrigerant Type	R410A				R410A					
Factory charge (kg)	7		8.4		8.4		9.5		9.3	
Pipe connection - liquid (mm)	Ø12.7		Ø15.9		Ø15.9					
Pipe connection - gas (mm)	Ø25.4		Ø28.6		Ø28.6					
Sound pressure level (dBA)	63		65		65		66		66	
Sound power level (dBA)	80		85		85		88		89	
Net dimensions (W×H×D) mm	940×1760×825				940×1760×825		1340×1760×825			
Packed dimensions (W×H×D) mm	1005×945×890				1005×945×890		1405×945×890			
Net weight (kg)	195		215		215		295			
Gross weight (kg)	213		232		232		315			
Cooling Ambient Temp. Range (°C)	-15 to 55				-15 to 55					
Heating Ambient Temp. Range (°C)	-30 to 30				-30 to 30					

Fixed Top Discharge

ShieldCase

SensorIQ

SmartFlow

Comfort Sense

Insight Monitor

All DC Inverter Technology

	8 HP	10 HP	12 HP	14 HP	16 HP	18 HP		20 HP	22 HP	24 HP	26 HP	28 HP	30 HP	32 HP
Model name	IVROTD410F-252	IVROTD410F-280	IVROTD410F-335	IVROTD410F-400	IVROTD410F-450	IVROTD410F-500		IVROTD410F-560	IVROTD410F-615	IVROTD410F-670	IVROTD410F-730	IVROTD410F-785	IVROTD410F-850	IVROTD410F-900
Power supply (V/Ph/Hz)	380-415/3/50							380-415/3/50						
Cooling Capacity (kW)	25.2	28.0	33.5	40.0	45.0	50.0		56.0	61.5	67.0	73.0	76.7	85.0	90.0
Cooling Capacity (kBtu/h)	85.9	95.5	114.2	136.4	153.5	170.5		191.0	209.7	228.5	248.9	267.7	289.9	306.9
Heating Rated Capacity (kW)	25.2	28.0	33.5	40.0	45.0	50.0		56.0	61.5	67.0	73.0	76.7	85.0	90.0
Heating Rated Capacity (kBtu/h)	85.9	95.5	114.2	136.4	153.5	170.5		191.0	209.7	228.5	248.9	267.7	289.9	306.9
Heating Max Capacity (kW)	27.0	31.5	37.5	45.0	50.0	56.0		63.0	69.0	75.0	81.5	87.5	95.0	100.0
Heating Max Capacity (kBtu/h)	92.1	107.4	127.9	153.5	170.5	191.0		214.8	235.3	255.8	277.9	298.4	324.0	341.0
SEER	7.11	6.74	6.24	6.17	5.97	6.01		5.95	5.90	5.88	5.58	5.82	5.69	5.63
ns,c (%)	281.4	266.6	246.6	243.8	235.8	237.4		235.0	233.0	232.2	220.2	229.8	224.6	222.2
SCOP	3.98	3.99	4.01	4.04	3.97	4.04		3.95	4.13	3.98	4.05	4.01	4.24	3.83
ns,h (%)	156.2	161.0	157.4	158.6	155.8	158.6		155.0	162.2	156.2	159.0	157.4	158.2	150.2
Indoor unit total capacity	50%–130%							50%–130%						
Max indoor units	13	16	19	23	26	29		33	36	39	43	46	50	53
Compressor Type	DC Inverter							DC Inverter						
Compressor Quantity	1					2		2						
Fan motor Type	DC							DC						
Fan motor Quantity	1					2		2						
Static pressure (Pa)	0–20 (standard) 20–80 (customized)							0–20 (standard) 20–80 (customized)						
Airflow rate (m³/h)	12600	12600	13500	15600	15600	22000		22000	21500	21500	29000	28000	28000	28000
Refrigerant Type	R410A							R410A						
Factory charge (kg)	7			8.4		9.3		9.3	11.96					
Pipe connection - liquid (mm)	Ø12.7			Ø15.9				Ø15.9			Ø22.2			
Pipe connection - gas (mm)	Ø25.4			Ø28.6				Ø28.6			Ø31.8	Ø34.9		
Sound pressure level (dBA)	58	58	60	65				66		67	68			
Sound power level (dBA)	75	84	84	86		88		89		90	93			
Net dimensions (W×H×D) mm	940×1760×825					1340×1760×825		1340×1760×825			1880×1760×825			
Packed dimensions (W×H×D) mm	1005×945×890					1405×1945×890		1405×1945×890			1945×1945×890			
Net weight (kg)	195			215		295		295	315		366	396		
Gross weight (kg)	213			232		315		315	335		396	426		
Cooling Ambient Temp. Range (°C)	-15 to 55							-15 to 55						
Heating Ambient Temp. Range (°C)	-30 to 30							-30 to 30						

Available capacities of indoor units

Model	Image	Capacity (kW)						Capacity (kW)							
		2.2	2.8	3.6	4.5	5.6		6.3	7.1	8.0	9.0	11.2	12.5	14.0	16.0
Wall-mounted		●	●	●	●	●			●						
Low Static Pressure Duct		●	●	●	●	●			●						
Medium Static Pressure Duct		●	●	●	●	●			●	●	●	●		●	●
High Static Pressure Duct										●	●	●	●	●	●
Compact Cassettes		●	●	●	●	●		●							
Cassettes			●	●	●	●			●	●	●	●		●	●
Floor Ceiling				●	●	●			●	●	●	●		●	
Floor Standing			●	●	●	●			●						
Floor Mounted Concealed			●	●	●	●			●						

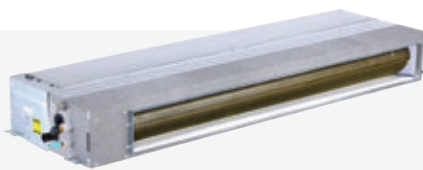
Wall-mounted



Model			IVRIWM-22	IVRIWM-28	IVRIWM-36	IVRIWM-45	IVRIWM-56	IVRIWM-71
Power supply			1 phase, 220-240V, 50Hz					
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
		kBtu/h	7.5	9.6	12.3	15.4	19.1	24.2
	Power input	W	21	24	27	30	40	50
Heating ²	Capacity	kW	2.4	3.2	4.0	5.0	6.3	8.0
		kBtu/h	8.2	10.9	13.6	17.1	21.5	27.3
	Power input	W	21	24	27	30	40	50
Fan motor	Model		ZKSN-50-8-17L					
	Type		DC					
Indoor coil	Number of rows		1	2&3	2&3			
	Fin spacing	mm	1.3	1.33				
	Fin type		Hydrophilic aluminum					
	Tube OD and type	mm	Φ7 Inner-groove	Φ5 Inner-groove				
	Dimensions (L×H×W)	mm	530×170×95			730×170×95		980×170×95
	Number of circuits		2	6				8
Air flow rate ³		m3/h	500/470/440/410/390/370/340	540/510/470/430/400/370/340	580/540/500/460/420/380/340	720/670/620/560/510/460/410	860/780/700/620/550/480/410	1220/1120/1030/940/850/750/660
Sound pressure level ⁴		dB(A)	33/32/31/30/29/28/27	35/34/33/32/31/30/28	37/36/34/33/31/30/28	37/35/33/32/31/30/29	41/39/37/35/33/31/29	44/42/40/38/36/34/32
Sound power level		dB(A)	46/45/44/43/42/41/40	50/49/48/47/46/44/42	54/53/51/50/48/46/44	54/52/50/49/48/46/44	56/54/52/50/48/46/44	58/56/54/52/50/48/46
Unit	Net dimensions ⁵ (W×H×D)	mm	750×295×265			950×295×265		1200×295×265
	Packed dimensions (W×H×D)	mm	875×385×360			1075×385×360		1315×385×360
	Net/Gross weight	kg	9/11.5	10/12.5		11.5/14		15/18
Refrigerant type			R410A/R32					
Throttle		Type	Electronic expansion valve					
Design pressure (H/L)		MPa	4.4/2.6					
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7					Φ9.52/Φ15.9
	Drain pipe	mm	OD Φ16					

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured in an anechoic chamber.
5. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

Low Static Pressure Duct



Model			IVRIDLSP-22	IVRIDLSP-28	IVRIDLSP-36	IVRIDLSP-45	IVRIDLSP-56	IVRIDLSP-71
Power supply			1-phase, 220-240V, 50Hz					
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
		kBtu/h	7.5	9.6	12.3	15.4	19.1	24.2
	Power input	W	22	28	31	43	58	65
Heating ²	Capacity	kW	2.5	3.2	4	5	6.3	8
		kBtu/h	8.5	10.9	13.7	17.1	21.5	27.3
	Power input	W	22	28	31	43	58	65
Fan motor type			DC					
Indoor coil	Number of rows ³		2&3					
	Tube pitch ³	mm	14&18					
	Fin spacing and type	mm	1.33 Hydrophilic aluminum					
	Tube OD and type	mm	Φ5 Inner-groove					
	Dimensions (L×H×W)	mm	380×170×95		530×170×95	730×170×95		930×170×95
	Number of circuits		4	4	4	6	6	8
Air flow rate ⁴		m3/h	370/347/339/322/314/306/295	460/431/413/380/351/323/300	605/557/508/453/414/365/320	800/770/701/629/557/506/435	900/800/761/682/603/549/470	1145/1033/957/860/763/671/580
External static pressure ⁵		Pa	10 (10-50)					
Sound pressure level ⁶		dB(A)	28/27.5/26.5/25.5/24.5/23.5/22	30/29.5/28.5/27.5/26/24.5/22	30/29.5/28.5/27.5/26.5/25.5/25	33/32.5/32/30.5/29/27.5/26	36/34.5/33.5/32.5/31/29/27	37/35/34/32.5/31/30/29
Sound power level ⁶		dB(A)	46/45/44/43/42/41/40	50.5/49/47/45.5/43.5/42/40	50.5/49.5/48/47/45.5/44.5/43	52/50.5/49/47.5/46/44.5/43	56/54/52/50/48/46/44	57/55.5/54/52/50.5/49/47
Unit	Net dimensions ⁷ (W×H×D)	mm	700×199×450			900×199×450		1100×199×450
	Packed dimensions (W×H×D)	mm	865×255×525			1065×255×525		1300×255×525
	Net/Gross weight	kg	13.0/15.5			16.5/19.5		20/23.5
Refrigerant type			R410A/R32					
Throttle type			Electronic expansion valve					
Design pressure (H/L)		MPa	4.4/2.6					
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7					Φ9.52/Φ15.9
	Drain pipe	mm	OD Φ25					

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Arc Duct adopts a brand-new special-shaped heat exchanger with different number of rows and different Tube pitch at different positions.
4. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
5. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate.
6. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in an anechoic chamber.
7. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.
8. All specifications are measured at standard external static pressure.
9. G1 air filter is standard for Arc Duct.

Medium Static Pressure Duct



Model			IVRIDMSP-22	IVRIDMSP-28	IVRIDMSP-36	IVRIDMSP-45	IVRIDMSP-56		IVRIDMSP-71	IVRIDMSP-80	IVRIDMSP-90	IVRIDMSP-112	IVRIDMSP-140	IVRIDMSP-160	
Power supply			1-phase, 220-240V, 50Hz							1-phase, 220-240V, 50Hz					
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5	5.6		7.1	8	9	11.2	14	16	
		kBtu/h	7.5	9.6	12.3	15.4	19.1		24.2	27.3	30.7	38.2	47.8	54.6	
	Power input	W	36	40	50	70	70		96	102	110	138	172	210	
Heating ²	Capacity	kW	2.5	3.2	4	5	6.3		8	9	10	12.5	16	18	
		kBtu/h	8.5	10.9	13.7	17.1	21.5		27.3	30.7	34.1	42.7	54.6	61.4	
	Power input	W	36	40	50	70	70		96	102	110	138	172	210	
Fan motor type			DC							DC					
Indoor coil	Number of rows		2	2	2	3	2		3	2	3	2	3	3	
	Tube pitch	mm	18×10.72							18×10.72					
	Fin spacing and type	mm	1.35 Hydrophilic aluminum							1.35 Hydrophilic aluminum					
	Tube OD and type	mm	Φ5 Inner-groove							Φ5 Inner-groove					
	Dimensions (L×H×W)	mm	400×21.44×360			400×32.16×360		600×21.44×360	600×32.16×360	850×21.44×360	850×32.16×360	1200×21.44×360	1200×32.16×360	1200×32.16×360	
	Number of circuits		5	5	5	5	5		10	10	10				
Air flow rate ³		m ³ /h	500/467/433/400/367/333/300	540/503/467/430/393/357/320	575/535/495/455/415/375/335	665/623/580/538/495/453/410	970/904/838/773/707/641/575		1150/1068/986/904/822/740/660	1355/1263/1172/1080/988/897/805	1420/1323/1225/1128/1030/933/835	1950/1817/1683/1550/1417/128 3/1150	2105/1971/1837/1703/1568/143 4/1300	2350/2160/2015/1871/1776/153 3/1400	
External static pressure ⁴		Pa	30 (10-160)							30 (10-160)	40 (10-160)				
Sound pressure level ⁵		dB(A)	26.5/26/25/24/23/22.5/22	26.5/26/25/24/23/22.5/22	29/28/27/26/25/23/22	33/32/29.5/28/26.5/25/24	33/32/31/30/27.5/26/25		35/33.5/32/30.5/29/27.5/26	37/35.5/34/32.5/31/29.5/28	37/35.5/34/32.5/31/29.5/28	39/37/35/33/31/29/28	40/38/36/34/32/30/29	42/40/38/36/34/33/31	
Sound power level		dB(A)	47/45.5/44/42.5/41/39.5/38	47/45.5/44/42.5/41/39.5/38	50/48.5/47/45/43/41/39	53/51/49/47/45/43/41	55/53/51/49/47/45/43		58/56/54/51.5/48/47/45	59/57/55/53/51/49/47	59/57/55/53/50.5/48/46	60/58/56.5/55/53.5/52/50	64/62/61.5/59.5/57.5/55/53	65/63/61/58.5/56.5/54/52	
Unit	Net dimensions ⁶ (W×H×D)	mm	600×245×750				800×245×750			800×245×750	1050×245×750		1400×245×750		
	Packed dimensions (W×H×D)	mm	765×305×885				965×305×885			965×305×885	1215×305×885		1565×305×885		
	Net/Gross weight	kg	18.5/21			19.5/22		24/27.5		25/28.5	30/34.0	31/35.0	37/42.0	39/44.0	39/44.0
Refrigerant type			R410A/R32							R410A/R32					
Throttle type			Electronic expansion valve							Electronic expansion valve					
Design pressure (H/L)		MPa	4.4/2.6							4.4/2.6					
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7							Φ9.52/Φ15.9		Φ9.52/Φ15.9			
	Drain pipe	mm	OD Φ25							OD Φ25					

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.

2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level dif ference.

3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.

4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)

5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in an anechoic chamber.

6. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

7. All specifications are measured at standard external static pressure

8. G1 air filter is standard for Medium Static Pressure Duct.

High Static Pressure Duct



Model name			IVRIDHSP-80	IVRIDHSP-90	IVRIDHSP-112	IVRIDHSP-125	IVRIDHSP-140	IVRIDHSP-160
Power supply			1-phase, 220-240V, 50Hz					
Cooling ¹	Capacity	kW	8.0	9.0	11.2	12.5	14.0	16.0
		kBut/h	27.3	30.7	38.2	42.7	47.8	54.6
	Input	W	159	196	248	252	284	339
Heating ²	Capacity	kW	9.0	10.0	12.5	14.0	16.0	18.0
		kBut/h	30.7	34.1	42.7	47.8	54.6	61.4
	Input	W	159	196	248	252	284	339
Fan motor	Type		DC					
	Number		1					
Coil	Number of rows		3	3	2	3	3	3
	Tube pitch × row pitch	mm	18×10.72					
	Fin spacing	mm	1.35	1.35	1.35	1.35	1.35	1.35
	Fin type		Hydrophilic aluminum					
	Tube OD and type	mm	Φ5 Inner groove					
	Dimensions (L×H×W)	mm	850×360×32.16	850×360×32.16	1200×360×21.44	1200×360×32.16	1200×360×32.16	1200×360×32.16
	Number of circuits		10	10	10	10	10	10
Airflow rate ³		m3/h	1360/1281/1201/1122/1043/963/884	1500/1413/1325/1238/1150/1063/975	2140/2015/1890/1766/1641/1516/1391	2150/2025/1899/1774/1649/1523/1398	2400/2260/2120/1980/1840/1700/1560	2600/2448/2297/2145/1993/1842/1690
External static pressure ⁴		Pa			80 (0-250)		100 (0-250)	
Sound pressure level ⁵		dB(A)	39/38/36/35/33/32/30	40/39/37/36/34/33/31	41/40/38/37/35/34/32	41/40/39/37/36/35/33	43/42/40/39/37/36/34	44/43/41/40/38/37/35
Sound power level		dB(A)	59/56/54/53/51/49/47	63/60/58/56/54/52/50	63/61/59/57/56/54/52	66/64/62/60/58/56/54	67/64/62/60/58/57/55	68/66/64/62/60/59/57
Unit	Net di-mensions ⁶ (W×H×D)	mm	1400×299×750					
	Packed dimensions (W×H×D)	mm	1565×359×890					
	Net/Gross weight	kg	35/38.5	35/38.5	44.5/48.5	46.5/50.5	46.5/50.5	46.5/50.5
Refrigerant type			R410A/R32					
Design pressure (H/L)		MPa	4.4/2.6					
Pipe con-nections	Liquid/Gas pipe	mm	Φ9.52/Φ15.9					
	Drain pipe	mm	OD Φ25					

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in an anechoic chamber.
6. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.
All specifications are measured at standard external static pressure.

Compact Cassettes



Model			IVRICM-22	IVRICM-28	IVRICM-36	IVRICM-45	IVRICM-56	IVRICM-63
Power supply			1-phase, 220-240V, 50Hz					
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5	5.6	6.3
		kBtu/h	7.5	9.6	12.3	15.4	19.1	21.5
	Power input	W	14	16	18	25	35	50
Heating ²	Capacity	kW	2.4	3.2	4.0	5.0	6.3	7.1
		kBtu/h	8.2	10.9	13.7	17.1	21.5	24.2
	Power input	W	14	16	18	25	35	50
Fan motor type			DC					
Indoor coil	Number of rows		1	1	2	2	3	3
	Tube pitch × row pitch	mm	18×10.72					
	Fin spacing and type	mm	1.2 Hydrophilic aluminum					
	Tube OD and type	mm	Φ5 Inner-groove					
	Dimensions (L×H×W)	mm	1360×180×10.72		1333×180×21.44	1333×180×21.44	1305×180×32.16	
	Number of circuits		3			5		
Air flow rate ³		m3/h	450/425/400/370/345/320/295	510/480/455/425/395/370/340	530/500/470/440/405/375/345	640/605/570/530/495/460/425	810/765/720/670/625/580/535	905/855/805/755/705/655/605
Sound pressure level ⁴		dB(A)	29/28/27/27/26/26/25	30/29/28/27/26/26/25	31/30/29/28/27/26/25.5	36.5/35/33/31/29/28/26.5	39/38/37/36/35/34/32	43/42/40/38/36/35/33.5
Sound power level ⁵		dB(A)	40/39/39/39/38/38/38	42/41/40/39/39/38/38	42/40/39/38/38/38/38	44/44/43/42/41/41/41	48/46/45/43/42/42/41	51/50/48/46/45/44/42
Main body	Net dimensions ⁶ (W×H×D)	mm	575×235×638			575×235×638		
	Packed dimensions (W×H×D)	mm	690×285×690			690×285×690		
	Net/Gross weight	kg	13.0/15.5		14.0/16.5	14.0/16.5	15.0/17.5	
Panel	Net dimensions (W×H×D)	mm	620×65×620					
	Packed dimensions (W×H×D)	mm	680×80×665					
	Net/Gross weight	kg	2.3/3.0					
Refrigerant type			R410A/R32					
Design pressure (H/L)		MPa	4.4/2.6					
Pipe con- nections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7					Φ9.52/Φ15.9
	Drain pipe	mm	OD Φ25					

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a semi- anechoic chamber.
5. Sound power level is from highest level to lowest level, total 7 levels for each model.
6. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.
7. Exposed height of the panel after being installed on the ceiling.

Cassettes



Model			IVRIC-28	IVRIC-36	IVRIC-45	IVRIC-56	IVRIC-71		IVRIC-80	IVRIC-90	IVRIC-100	IVRIC-112	IVRIC-140	IVRIC-160	
Power supply			1-phase, 220-240V, 50Hz							1-phase, 220-240V, 50Hz					
Cooling ¹	Capacity	kW	2.8	3.6	4.5	5.6	7.1		8.0	9.0	10.0	11.2	14.0	16.0	
		kBtu/h	9.6	12.3	15.4	19.1	24.2		27.3	30.7	34.1	38.2	47.8	54.6	
	Power input	W	17	17	23	23	31		41	43	54	61	89	110.0	
Heating ²	Capacity	kW	3.2	4.0	5.0	6.3	8.0		9.0	10.0	11.2	12.5	16.0	18.0	
		kBtu/h	10.9	13.7	17.1	21.5	27.3		30.7	34.1	38.2	42.7	54.6	61.4	
	Power input	W	17	17	23	23	31		41	43	54	61	89	110.0	
Fan motor type			DC							DC					
Indoor coil	Number of rows		1	1	2	2	2		2	2	2	2	3	3	
	Tube pitch × row pitch	mm	18×10.72							18×10.72					
	Fin spacing and type	mm	1.2 Hydrophilic aluminum							1.2 Hydrophilic aluminum					
	Tube OD and type	mm	Φ5 Inner-groove							Φ5 Inner-groove					
	Dimensions (L×H×W)	mm	2165×144×10.72				2165×198×21.44			2165×198×21.44		2165×252×21.44		2165×252×32.16	2200×252×32.16
	Number of circuits		4	4	8	8	11		11	11	14	14	14	14	
Air flow rate ³		m3/h	790/740/691/641/591/542/492			840/787/733/680/626/573/519	840/791/741/692/642/593/543	1000/943/886/829/772/715/658	1330/1239/1148/1057/965/874/783	1330/1239/1148/1057/965/874/783	1445/1363/1282/1200/1118/1037/955	1600/1497/1393/1290/1186/1083/979	1730/1624/1518/1412/1306/1200/1094	2100/1900/1760/1630/1500/1380/1270	
Sound pressure level ⁴		dB(A)	30/29/28/27.5/27/26/25	30/29/28/27.5/27/26/25	33/32/31/30/29/28/27	33/32/31/30/29/28/27	37/36/34/33/32/30/29	38/37/35/34/32/31/29	38/37/35/34/32/31/29	39/38/37/36/35/34/33	41/40/38/37/36/34/33	43/42/40/39/37/36/34	46/44/43/41/40/38/37		
Sound power level		dB(A)	43/42/41/41/40/39/39	44/43/42/42/41/40/39	49/48/47/46/45/44/43	49/48/48/47/46/45/44	51/50/49/48/47/46/46	53/52/51/50/49/48/47	54/53/52/51/50/49/48	54/53/52/51/50/50/49	57/56/55/54/53/52/51	58/57/56/55/54/53/52	57/56/54/52/50/47/46		
Main body	Net dimensions ⁵ (W×H×D)	mm	840×204×840							840×246×840		840×288×840			950×300×950
	Packed dimensions (W×H×D)	mm	940×250×940							940×295×940		940×335×940			1050×335×1050
	Net/Gross weight	kg	18/20.8			19.5/22.4			22/25.4	22/25.4		24/27.7		26.5/30.1	32.6/37.2
Panel	Net dimensions ⁶ (W×H×D)	mm	950×53×950							950×53×950		950×53×950			1050×55×1050
	Packed dimensions (W×H×D)	mm	1030×95×1030							1030×95×1030		1030×95×1030			1115×100×1115
	Net/Gross weight	kg	5.6/8.0							5.6/8.0		5.6/8.0			7.4/9.7
Refrigerant type			R410A/R32							R410A/R32					
Design pressure (H/L)		MPa	4.4/2.6							4.4/2.6					
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7				Φ9.52/Φ15.9			Φ9.52/Φ15.9					
	Drain pipe	mm	OD Φ25							OD Φ25					

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.

2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.

3. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.

4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.5m below the unit in a semi- anechoic chamber.

5. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

6. Exposed height of the panel after being installed on the ceiling.

Floor Ceiling



Model			IVRIFC-36	IVRIFC-45	IVRIFC-56		IVRIFC-71	IVRIFC-80	IVRIFC-90	IVRIFC-112	IVRIFC-140	
Power supply			1 phase, 220-240V, 50Hz					1 phase, 220-240V, 50Hz				
Cooling ¹	Capacity	kW	3.6	4.5	5.6		7.1	8	9	11.2	14	
		kBtu/h	12.3	15.4	19.1		24.2	27.3	30.7	38.2	47.8	
	Power input	W	16	24	40		42	56	75	65	140	
Heating ²	Capacity	kW	4	5	6.3		8	9	10	12.5	16	
		kBtu/h	13.7	17.1	21.5		27.3	30.7	34.1	42.7	54.6	
	Power input	W	16	24	40		42	56	75	65	140	
Fan motor	Model		ZKSN-50-8-5L-4					ZKSN-60-8-7-3				
	Type		DC					DC				
Indoor coil	Number of rows		3	3	3		3	3	3	3	3	
	Tube pitch × row pitch	mm	18×10.72					18×10.72				
	Fin spacing	mm	1.35					1.35				
	Fin type		Hydrophilic aluminum					Hydrophilic aluminum				
	Tube OD and type	mm	Φ5 Inner-groove					Φ5 Inner-groove				
	Dimensions (L×H×W)	mm	730×21.44×288					930×21.44×288			1305×21.44×288	
	Number of circuits		8					8				
Air flow rate ³		m ³ /h	564/539/514/492/467/445/424	712/674/637/603/565/531/500	927/883/840/794/751/707/665		1128/1062/1024/926/860/791/729	1300/1218/1138/1057/982/904/824	1480/1397/1302/1218/1138/1056/979	1648/1530/1469/1292/1178/1067/956	2206/2070/1937/1810/1677/1516/1402	
Sound pressure level ⁴		dB(A)	32/30/29/28/27/26/25	36/35/34/33/32/31/30	43/41/40/38/36/34/33		43/40/39/37/35/34/33	45/44/42/40/38/36/34	48/47/46/44/42/40/37	44/42/41/39/37/35/33	51.5/50/48/46/44/42/40	
Sound power level		dB(A)	43/42/40/39/38/38/37	47/45/45/43/42/41/40	54/53/51/50/48/47/45		54/53/52/51/49/48/48	55/53/51/50/49/46/44	58/57/55/54/52/50/49	56/54/53/51/49/47/45	63/62/60/58/56/54/53	
Unit	Net dimensions ⁵ (W×H×D)	mm	1069×674×234					1284×674×234			1649×674×234	
	Packed dimensions (W×H×D)	mm	1190×755×313					1405×755×323			1770×755×323	
	Net/Gross weight	kg	24.7/29.5					29.8/34.8			36.4/42.7	
Refrigerant type			R410A/R32					R410A/R32				
Throttle		Type	Electronic expansion valve					Electronic expansion valve				
Design pressure (H/L)		MPa	4.4/1.5					4.4/1.5				
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7					Φ9.52/Φ15.9				
	Drain pipe	mm	OD Φ25					OD Φ25				

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.

2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.

3. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.

4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured in an anechoic chamber.

5. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

Floor Standing



Model			IVRIFM-28	IVRIFM-36	IVRIFM-45	IVRIFM-56	IVRIFM-71
Power supply			1 phase, 220-240V, 50Hz				
Cooling ¹	Capacity	kW	2.8	3.6	4.5	5.6	7.1
		kBtu/h	9.6	12.3	15.4	19.1	24.2
	Power input	W	35	40	44	45	53
Heating ²	Capacity	kW	3.2	4	5	6.3	8.0
		kBtu/h	10.9	13.7	17.1	21.5	27.3
	Power input	W	35	41	46	47	57
External static pressure		Pa(F4)	0~10				
		Pa(F5)	0~10				
Fan motor	Type		DC				
	Number		1				
Indoor coil	Number of rows		2	3	3	2	3
	Tube pitch × row pitch	mm	22×19.05				
	Fin spacing	mm	1.6				
	Fin type		Hydrophilic aluminum				
	Tube OD and type	mm	Φ8 Inner-groove				
	Dimensions (L×H×W)	mm	580×38.1×176	580×57.2×176	800×57.2×176	920×38.1×264	920×57.2×264
	Number of circuits		2	4	4	3	5
Air flow rate ³		m3/h	498/486/475/464/453/441/430	508/491/474/458/441/424/407	692/665/637/610/582/555/528	811/785/759/732/706/680/653	930/895/860/825/790/755/721
Sound pressure level ⁴		dB(A)	32.5/32/31.5/31/30.5/30/29	35/34/33/32/31/30/29	38/37/36/35/34/32.5/31.5	35/34.5/34/33/32.5/32/31	39.5/39/38/37/36/35/34
Sound power level ⁴		dB(A)	51/50/49/49/48/48/48	51/50/49/48/47/47/46	53/53/52/51/50/49/48	51/50/50/50/49/49/48	54/53/52/51/50/50/49
	Net di-mensions ⁵ (W×H×D)	mm	1240×495×200			1360×591×200	
	Packed dimensions (W×H×D)	mm	1345×595×285			1465×695×285	
	Net/Gross weight	kg	21.9/27.6		26.3/32.4	32.1/39.4	33.3/41.1
Refrigerant type			R410A/R32				
Design pressure (H/L)		Mpa	4.4/2.6				
Refrigerant piping	Liquid/Gas side	mm	Φ6.35/Φ12.7				Φ9.52/Φ15.9
Drain piping		mm	OD Φ18.5				

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest to the lowest, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured at 1m in front of the unit and at a height of 1.5m in a anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Floor Mounted Concealed

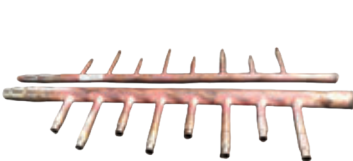


Model			IVRICFM-28	IVRICFM-36	IVRICFM-45	IVRICFM-56	IVRICFM-71
Power supply			1 phase. 220-240V. 50Hz				
Cooling ¹	Capacity	kW	2.8	3.6	4.5	5.6	7.1
		kBtu/h	9.6	12.3	15.4	19.1	24.2
	Power input	W	35	40	44	45	53
Heating ²	Capacity	kW	3.2	4	5	6.3	8.0
		kBtu/h	10.9	13.7	17.1	21.5	27.3
	Power input	W	35	41	46	47	57
External static pressure		Pa(F4)	0-60				
Fan motor	Type		DC				
	Number		1				
Indoor coil	Number of rows		2	3	3	2	3
	Tube pitch × row pitch	mm	22×19.05				
	Fin spacing	mm	1.6				
	Fin type		Hydrophilic aluminum				
	Tube OD and type	mm	Φ8 Inner-groove				
	Dimensions (L×H×W)	mm	580×38.1×176	580×57.2×176	800×57.2×176	920×38.1×264	920×57.2×264
	Number of circuits		2	4	4	3	5
Air flow rate ³		m ³ /h	473/464/454/449/439/431/426	524/503/488/471/450/427/408	636/611/584/557/533/507/483	781/756/738/717/683/651/624	928/893/865/834/803/770/739
Sound pressure level ⁴		dB(A)	34.5/34/33.5/32.5/32/31/30.5	36.5/35.5/34.5/34/33/32/31	37/36/35/34/33/32/30	36.5/36/35/34/33.5/32.5/31.5	40.5/39.5/38.5/37.5/36.5/36/34.5
Sound power level ⁴		dB(A)	49/48/48/47/47/46/46	51/50/49/48/47/46/46	52/51/50/49/48/47/46	51/51/50/49/48/48/47	55/54/53/52/52/51/50
Unit	Net dimensions ⁵ (W×H×D)	mm	915×470×200		1133×470×200	1253×566×200	
	Packed dimensions (W×H×D)	mm	985×555×255		1205×555×255	1325×650×255	
	Net/Gross weight	kg	16.3/20.0	16.9/20.7	20.0/24.4	24.3/30.0	26.1/31.8
Refrigerant type			R410A/R32				
Design pressure (H/L)		Mpa	4.4/2.6				
Refrigerant piping	Liquid/Gas side	mm	Φ6.35/Φ12.7				Φ9.52/Φ15.9
Drain piping		mm	OD Φ18.5				

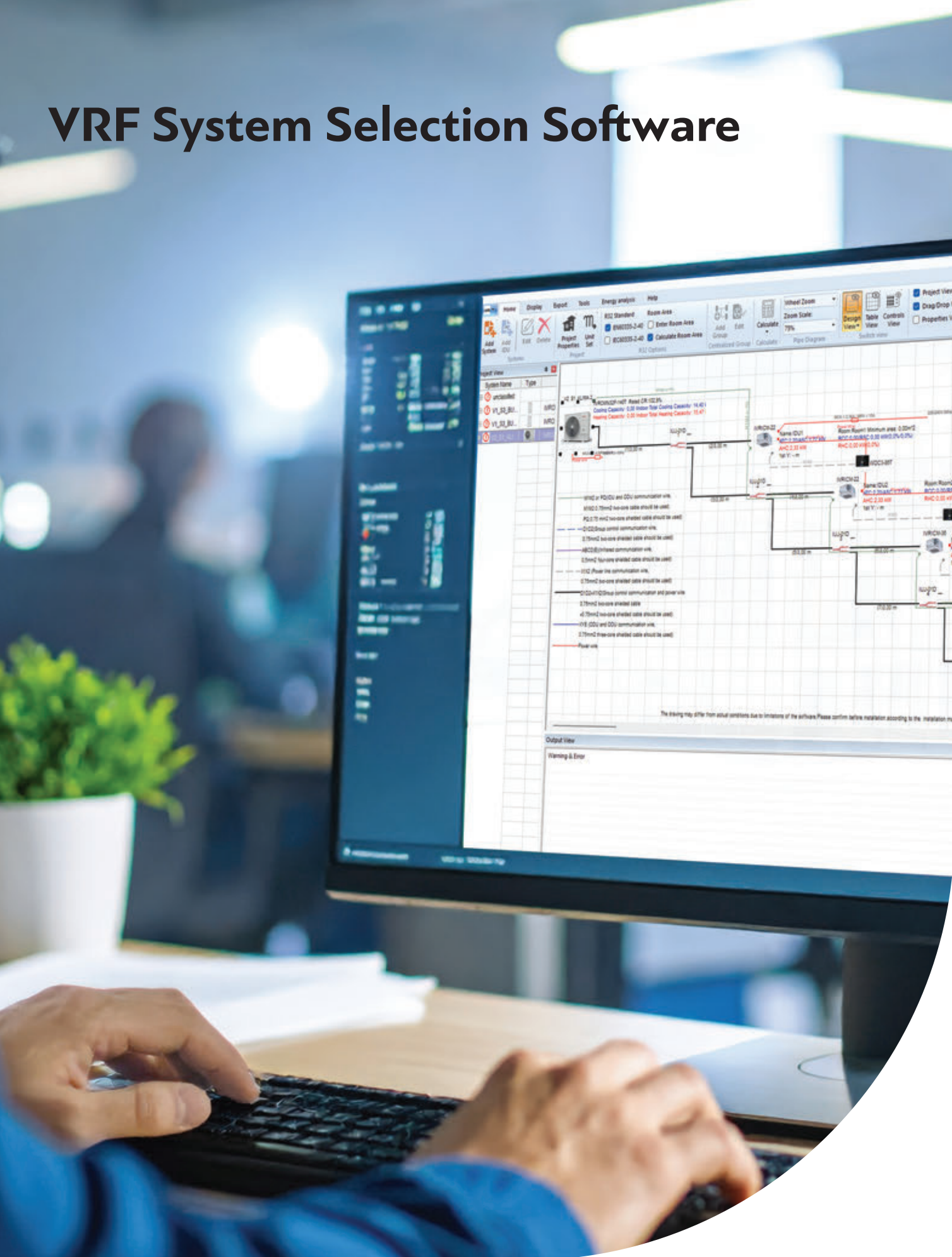
Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Fan motor speed and air flow rate are from the highest to the lowest, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured at 1m in front of the unit and at a height of 1.5m in a anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Compatibility Table of Accessories

Product	Model		Compatible Products
Wireless Remote Controller	RM12F1		All IDU units
Wired Remote Controller	WDC3-86S		All IDU units
Wired Remote Controller with WiFi	WDC3-86T		All IDU units
Touch Centralised Controller 7 inches	TC3-7		All IDU units
Touch Centralised Controller 10.1 inches	TC3-10.1		All IDU units
BMS Gateway	GW3-MOD		All, except IVROSD410F-200 & IVROSD410F-224

Product		Compatible Products
Bluetooth Kit		All, except IVROSD410F-200 & IVROSD410F-224
Smart Module		All ODU Units except IVROSD410F-200 & IVROSD410F-224
PCB-changing Kit		All, except IVROSD410F-200 & IVROSD410F-224
Switch Module & Expansion Board		All IDU Units except IVROSD410F-200 & IVROSD410F-224
Refrigerant Leakage Sensor		Only Mini VRF
Refrigerant Shut-off Device		Only Mini VRF
Branch joints for indoor units		All
Header		All

VRF System Selection Software



Inventor has designed a complete and user-friendly VRF system design and selection tool that significantly reduces design time, improves accuracy, and offers maximum ease throughout the design process. With modern tools and a wide range of functions, the software simplifies the selection procedure, ensuring optimal performance, proper capacity selection and excellent adaptation of each system to the specific needs of the project. Suitable from single-system projects up to large-scale installations with multiple zones, it is the ideal solution for engineers, designers, and HVAC professionals.

Advantages

1. Three visualization modes for maximum flexibility

Drag & Drop View: Design the system easily by simply dragging and dropping the required components.

AutoCAD View: Creation of detailed drawings and calculations via MSSP-CAD.

Table View: Ideal for quick selection and immediate generation of an equipment list.

2. Import of previous projects

Compatibility with MSS-VRF 4.0 files allows easy editing and reuse of older studies.

3. Free combination of outdoor units

Users can create custom combinations of outdoor units according to the building's requirements, offering greater design flexibility.

4. Project Manager for comprehensive project management

A dedicated function that enables monitoring of all projects, exporting reports to Excel, highlighting the most frequently used units across projects, and filtering by date.

5. Automated piping diagram generation

By importing Excel-based models, MSSP-VRF automatically generates the complete piping diagram quickly, easily, and accurately.

6. Model replacement

Identification of compatible Inventor models by searching for models from other brands, enabling fast and easy redesign or unit replacement.

7. Piping specifications

Ability to define pipe sizes from a list of approved options and check availability.

8. System check and instant error detection

If any piping exceeds allowable limits, the system highlights it with a red frame and displays the corresponding error.

9. Piping design directly on JPG drawings

Import architectural drawings in JPG format and create AutoCAD diagrams directly on them—ideal when CAD files are not available.

10. Automatic PDF export with complete technical information

With a single step, the software generates a comprehensive PDF including detailed equipment data, refrigerant and electrical diagrams, and full technical specifications.

Supporting you at every step!

At Inventor, we make every VRF project smooth and reliable, offering expert guidance, training, and support whenever you need it.

VRF Selection Program **Accurate, Easy, Reliable**

Our VRF Selection Program simplifies the design process, allowing engineers and partners to quickly select the most suitable system for each building, optimize energy consumption, and ensure perfect matching of units and zones.

Product Availability **Solutions for Every Need**

Inventor offers a wide range of high-performance VRF systems, designed for flexibility, scalability, and optimal adaptation to any building. With immediate support through our qualified partner network, we ensure the ideal solution for every project.

After-Sales Service **Support That Makes a Difference**

Inventor's After-Sales Service team provides prompt and effective support, ensuring that VRF systems operate flawlessly before and after commissioning.

Spare Parts **Immediate Availability, Fast Service**

Inventor guarantees quick access to spare parts via our e-shop, a modern platform available in Greece and abroad. Orders are processed automatically, with online search, compatibility checks, and technical information, providing efficient support 24/7.

Seminars



Continuous Training and Support

Systematic support for HVAC professionals is one of Inventor's strategic pillars, ensuring full technical coverage, continuous education, and long-term partnerships. Tech Days is our comprehensive program offering hands-on training, full familiarization with VRF installation, setup, maintenance, and system optimization. Through this initiative, Inventor develops a network of skilled professionals, meeting market demands and delivering superior performance and user experience.



Inventor A.G. S.A.
Part of BEUER-REF

24th km National Road Athens - Lamia & 1 Thoukididou Str., Ag.Stefanos, 145 65, Tel.: +30 211 300 3300 | Fax: +30 211 300 3333 | www.inventor.ac/en

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The wiring specifications for air conditioners and air-to-water heat pumps should always comply with the local regulations and requirements.